

(FILE 'USPAT' ENTERED AT 06:39:56 ON 08 SEP 1999)

L1 66 S (DOCUMENT COLLECTION)
L2 24 S L1 AND (HIERARCHY OR HIERARCHICAL)
L3 1 S L2 AND FOLDER#
L4 162 S (TEXT DATABASE OR TEXT DATA (W) BASE)
L5 1 S L4 AND (HIERARCHAL OR HIERARCHY (P) FOLDER#)
L6 187921 S L5 AND INDEX OR KEY#
L7 1 S L5 AND (INDEX OR KEY#)
L8 3 S L2 AND 345/CLAS
L9 21 S L2 AND 707/CLAS
L10 0 S L2 AND 395/CLAS

=> d 12 1-24

1. 5,931,907, Aug. 3, 1999, Software agent for comparing locally accessible keywords with meta-information and having pointers associated with distributed information; Nicholas John Davies, et al., 709/218; 707/10, 102, 501, 513, 515; 709/201, 202, 203, 219 [IMAGE AVAILABLE]
2. 5,926,811, Jul. 20, 1999, Statistical thesaurus, method of forming same, and use thereof in query expansion in automated text searching; David James Miller, et al., 707/5, 3, 4, 7, 513, 532 [IMAGE AVAILABLE]
3. 5,924,105, Jul. 13, 1999, Method and product for determining salient features for use in information searching; William F. Punch, III, et al., 707/513; 704/7, 9; 707/2, 3, 5, 534 [IMAGE AVAILABLE]
4. 5,895,470, Apr. 20, 1999, System for categorizing documents in a linked collection of documents; Peter L. Pirolli, et al., 707/102, 4, 5, 6, 101, 103, 104 [IMAGE AVAILABLE]
5. 5,870,552, Feb. 9, 1999, Method and apparatus for publishing hypermedia documents over wide area networks; Linda T. Dozier, et al., 709/219; 707/501; 709/203 [IMAGE AVAILABLE]
6. 5,847,709, Dec. 8, 1998, 3-D document workspace with focus, immediate and tertiary spaces; Stuart K. Card, et al., 345/355, 329, 351, 358, 976 [IMAGE AVAILABLE]
7. 5,845,278, Dec. 1, 1998, Method for automatically selecting collections to search in full text searches; Steven T. Kirsch, et al., 707/3, 1, 4, 5, 102, 103 [IMAGE AVAILABLE]
8. 5,838,326, Nov. 17, 1998, System for moving document objects in a 3-D workspace; Stuart K. Card, et al., 345/355, 351, 358 [IMAGE AVAILABLE]
9. 5,835,905, Nov. 10, 1998, System for predicting documents relevant to focus documents by spreading activation through network representations of a linked collection of documents; Peter L. Pirolli, et al., 707/3, 5, 102 [IMAGE AVAILABLE]

=> s hierarchical folder# or hierarchial folder#

8208 HIERARCHICAL
6183 FOLDER#
6 HIERARCHICAL FOLDER#
(HIERARCHICAL(W) FOLDER#)
908 HIERARCHIAL
6183 FOLDER#
0 HIERARCHIAL FOLDER#
(HIERARCHIAL(W) FOLDER#)

L9 6 HIERARCHICAL FOLDER# OR HIERARCHIAL FOLDER#

=> d 19 1-6

1. 5,913,065, Jun. 15, 1999, System, method and article of manufacture for creating **hierarchical folder** components for use in a java application or applet; Antony Azio Faustini, 395/703; 345/333; 395/701 [IMAGE AVAILABLE]
2. 5,832,470, Nov. 3, 1998, Method and apparatus for classifying document information; Takako Morita, et al., 707/1, 2, 3, 4 [IMAGE AVAILABLE]
3. 5,819,032, Oct. 6, 1998, Electronic magazine which is distributed electronically from a publisher to multiple subscribers; Pierre de Vries, et al., 709/250; 345/326, 348, 349; 709/217 [IMAGE AVAILABLE]
4. 5,426,745, Jun. 20, 1995, Apparatus including a pair of neural networks having disparate functions cooperating to perform instruction recognition; Toru Baji, et al., 345/469; 364/284.4, 972.4, DIG.1, DIG.2; 382/159; 704/200, 213; 706/20, 28 [IMAGE AVAILABLE]
5. 5,163,111, Nov. 10, 1992, Customized personal terminal device; Toru Baji, et al., 706/20; 382/156; 704/200 [IMAGE AVAILABLE]
6. 5,065,347, Nov. 12, 1991, **Hierarchical folders** display; Henry G. Pajak, et al., 345/348, 118, 346, 350, 357 [IMAGE AVAILABLE]

=> s electronic document import?

290573 ELECTRONIC

60206 DOCUMENT

730616 IMPORT?

L14 1 ELECTRONIC DOCUMENT IMPORT?
(ELECTRONIC (W) DOCUMENT (W) IMPORT?)

=> d 114

① 5,813,009, Sep. 22, 1998, Computer based records management system method; Judy J. Johnson, et al., 707/100, 9, 101, 103, 104, 200, 204, 205; 711/100, 170 [IMAGE AVAILABLE]

18/5/1

DIALOG(R) File 348:European Patents
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00908011

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348
ELECTRONIC DOCUMENT DISPLAY, DOCUMENT DISPLAY METHOD AND RECORDING MEDIUM
ANZEIGE VOM ELEKTRONISCHEN DUKUMENTEN, ANZEIGEMETHODE FUR DOKUMENTE UND
AUFZEUCHNUNGSMEDIUM

UNITE D'AFFICHAGE POUR DOCUMENTS ELECTRONIQUES, PROCEDE D'AFFICHAGE DE
DOCUMENTS ET SUPPORT D'ENREGISTREMENT

PATENT ASSIGNEE:

SEGA ENTERPRISES, LTD., (573300), 2-12 Haneda 1-chome Ohta-ku, Tokyo 144,
(JP), (applicant designated states:
AT;BE;CH;DE;DK;ES;FI;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)

INVENTOR:

ISHIMARU, Kenji, Sega Enterprises, Ltd., 2-12, Haneda 1-chome, Ohta-ku,
Tokyo 144, (JP)

LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 844575 A1 980527 (Basic)
WO 9744748 971127

APPLICATION (CC, No, Date): EP 97922140 970522; WO 97JP1726 970522

PRIORITY (CC, No, Date): JP 96127107 960522

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU;
MC; NL; PT; SE

INTERNATIONAL PATENT CLASS: G06F-017/30 ; G06F-017/28

CITED PATENTS (WO A): X Y X

CITED REFERENCES (WO A):

MICROFILM OF THE SPECIFICATION AND DRAWINGS ANNEXED TO THE WRITTEN
APPLICATION OF JAPANESE UTILITY MODEL, Application No. 30995/1981
(Laid-Open No. 144155/1982), (CANON INC.), 10 September 1982.;

ABSTRACT EP 844575 A1

To provide an electronic dictionary that stylizes the display based on
data pertaining to the number of times and frequency with which a search
is performed, thereby making it easy to use, and to provide an electronic
dictionary that can be used by a plurality of users.

The device comprises a keyboard 1a and a mouse 1b, a dictionary memory
6 for storing text electronically, mark files 7 - 1, ... , 7 - n which
store **attribute data** relating to text that has been **searched** for
one or more times in the dictionary memory 6, a display component 5 for
displaying text that has been **searched** for, and a CPU 3 for displaying
searched for text in the display area 5 while changing the color based
on the **attribute data** from the mark file 7 and for **searching** the
dictionary memory 6 upon receiving an output signal from the input method
1a or 1b.

ABSTRACT WORD COUNT: 156

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 980311 A1 International application (Art. 158(1))
Application: 980527 A1 Published application (A1with Search Report
;A2without Search Report)
Examination: 980527 A1 Date of filing of request for examination:
980121

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9822	847
SPEC A	(English)	9822	5094
Total word count - document A			5941
Total word count - document B			0
Total word count - documents A + B			5941

18/5/2

DIALOG(R) File 348:European Patents

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00901479

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

Integrated database system

Integriertes Datenbanksystem

Systeme integre de base de donnees

PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku,
Tokyo, (JP), (applicant designated states:

AT;BE;CH;DE;DK;ES;FI;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)

Kiyoki, Yasushi, (2358960), 126-202, Namiki 2-chome, Tsukuba-shi,

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AT;BE;CH;DE;DK;ES;FI;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)

Kitagawa, Takashi, (2358940), 207-202, Namiki 2-chome, Tsukuba-shi,

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AT;BE;CH;DE;DK;ES;FI;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)

INVENTOR:

Kiyoki, Yasushi, 1148-24, Nagakuni, Tsuchiura-shi, Ibaraki-ken, (JP)

Kitagawa, Takashi, 207-202, Namiki 2-chome, Tsukuba-shi, Ibaraki-ken,
(JP)

LEGAL REPRESENTATIVE:

Beresford, Keith Denis Lewis et al (28273), BERESFORD & Co. 2-5 Warwick
Court High Holborn, London WC1R 5DJ, (GB)

PATENT (CC, No, Kind, Date): EP 822505 A2 980204 (Basic)

APPLICATION (CC, No, Date): EP 97305755 970731;

PRIORITY (CC, No, Date): JP 96203471 960801

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU;
MC; NL; PT; SE

INTERNATIONAL PATENT CLASS: **G06F-017/30**

ABSTRACT EP 822505 A2

An integrated database system for performing data processing utilizing plural types of databases. A Meta level system 15 includes a script interpreter 8 which interprets an inquiry represented by a script form which has been addressed to a database to issue a primitive corresponding to the inquiry and combines replies represented by a primitive form received from plural types of databases 11. A local database system 14 includes a primitive processor 9 which transforms the primitive into a control command corresponding to the type of the database 11, outputs the transformed command to the plural types of databases 11, and replies the Meta level system 15 with the process result represented by the primitive form.

ABSTRACT WORD COUNT: 116

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 980204 A2 Published application (Alwith Search Report
;A2without Search Report)

Change: 980422 A2 Inventor (change)

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9806	1079
SPEC A	(English)	9806	5469
Total word count - document A			6548
Total word count - document B			0
Total word count - documents A + B			6548

18/5/3

DIALOG(R)File 348:European Patents

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00893383

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

Circular size-bounded file technique for a computer operating system

Zirkulare grossenbegrenzte Dateienstruktur fur ein Rechnerbetriebssystem

**Structure de fichiers circulaire et limitee par sa taille pour un systeme
d'exploitation d'ordinateur**

PATENT ASSIGNEE:

SUN MICROSYSTEMS, INC., (1392735), 2550 Garcia Avenue, MS PAL1-521,
Mountain View, California 94043-1100, (US), (applicant designated
states: DE;FR;GB;NL;SE)

INVENTOR:

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80920, (US)

LEGAL REPRESENTATIVE:

Hanna, Peter William Derek et al (72341), Tomkins & Co., 5 Dartmouth Road
, Dublin 6, (IE)

PATENT (CC, No, Kind, Date): EP 817102 A1 980107 (Basic)

APPLICATION (CC, No, Date): EP 97201882 970619;

PRIORITY (CC, No, Date): US 675040 960703

DESIGNATED STATES: DE; FR; GB; NL; SE

INTERNATIONAL PATENT CLASS: G06F-017/30

ABSTRACT EP 817102 A1

Apparatus and programmed method is disclosed, providing for the
creation of a circular file of use in conjunction with the "UNIX"
operating system or other layered and modular operating system
architectures. The circular file uses an inode field (133) to identify
the file as circular (135) and writes (145) fill data to the file to
allocate physical blocks to the file at the time of its creation.
Thereafter, blocks already allocated to the file are re-allocated (141)
when more file space is needed and the file size does not increase.

ABSTRACT WORD COUNT: 91

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 980107 A1 Published application (A1with Search Report
;A2without Search Report)

Examination: 980429 A1 Date of filing of request for examination:
980302

Examination: 980610 A1 Date of despatch of first examination report:
980424

Change: 980916 A1 Designated Contracting States (change)

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9802	606
SPEC A	(English)	9802	1818
Total word count - document A			2424
Total word count - document B			0
Total word count - documents A + B			2424

18/5/4

DIALOG(R)File 348:European Patents

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00879212

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

Least-recently-used method for reusing directory search handles

**Least-recently-used-Verfahren zum Wiederverwenden von Modulen zum
Durchsuchen von Verzeichnissen**

**Mecanisme de type least-recently-used pour reutiliser des modules de
recherche dans des repertoires**

PATENT ASSIGNEE:

SUN MICROSYSTEMS INC., (1392735), 2550 Garcia Avenue, MS PAL1-521,
Mountain View, California 94043-1100, (US), (applicant designated
states: DE;FR;GB;NL;SE)

INVENTOR:

Berliner, Brian, 379 Silver Spring Circle, Colorado Springs, Colorado
80919, (US)

LEGAL REPRESENTATIVE:

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, Dublin 6, (IE)

PATENT (CC, No, Kind, Date): EP 805392 A1 971105 (Basic)

APPLICATION (CC, No, Date): EP 97201083 970411;

PRIORITY (CC, No, Date): US 639531 960501
DESIGNATED STATES: DE; FR; GB; NL; SE
INTERNATIONAL PATENT CLASS: G06F-009/46 ; G06F-017/30

ABSTRACT EP 805392 A1

A method is disclosed for reusing directory search handles in a manner that minimises the possibility that a handle allocated for a directory search request that is not yet complete will be reused. This method is implemented by assigning (230) a block of system memory at the time of system initialisation for the creation (235) of a set of directory search and information retrieval handle structures. Handle structures within the set are allocated (265) as they are needed. When all have been allocated, they are reused (265) one at a time in a least-recently-used fashion which gives preference to handle structures which have the lowest probability of being associated with an incomplete search request.

ABSTRACT WORD COUNT: 115

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 971105 A1 Published application (A1with Search Report
;A2without Search Report)
Examination: 980610 A1 Date of filing of request for examination:
980414
Change: 980715 A1 Title of invention (English) (change)
Change: 980722 A1 Title of invention (English) (change)
Examination: 980909 A1 Date of despatch of first examination report:
980723

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9710W5	782
SPEC A	(English)	9710W5	2866
Total word count - document A			3648
Total word count - document B			0
Total word count - documents A + B			3648

18/5/5

DIALOG(R)File 348:European Patents
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00871429

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Converting **handle-based** find **first/** find **next/** find **close** to
non-handle based find **first/** find **next**

Konvertierung von **Handle-basierten** Suche **Zuerst-/Suche danach-/Suche**
Zuende-Operationen in nicht **Handle-basierte** Suche **zuerst-/Suche danach-**
Operationen

Conversion d'operations de recherche **trouver d'abord/trouver apres/trouver**
a la fin basees sur handle en operations pas basees sur un handle
trouver d'abord/tro

PATENT ASSIGNEE:

SUN MICROSYSTEMS INC., (1392735), 2550 Garcia Avenue, MS PAL1-521,
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PATENT (CC, No, Kind, Date): EP 798654 A1 971001 (Basic)

APPLICATION (CC, No, Date): EP 97200657 970305;

PRIORITY (CC, No, Date): US 622885 960329

DESIGNATED STATES: DE; FR; GB; IT; NL

INTERNATIONAL PATENT CLASS: G06F-017/30

ABSTRACT EP 798654 A1

Handle-based **finding** operations for **search** operations in an
operating system (20) in a computing system are **converted** into

non-handle-based **finding** operations. The invention is responsive to a program module (30) performing **search** operations specifying a file **search** path and has a **find** first module (32), a **find** next module (40) and a **find** close module (42). The **find** first module, in response to a **find** first call from the program module, **locates** (70) a **search** block for use in storing file identification information for a first file in the file **search** path. The **find** first module marks (78) the **search** block as "in use," generates a handle identifying the **search** block and passes the handle back to the program module. The **find** next module is responsive to a **find** next call containing the handle. The **find** next module **converts** (90) the handle into a **search** block address and **locates** the **search** block from the **search** block address. The **search** block is used to store the file identification information for a next file in the file **search** path. The **find** close module is responsive to a **find** close call with handle from the program module. The **find** close module **converts** (110) the handle into a **search** block address, **locates** the **search** block from the **search** block address and marks (114) the **search** block "not in use" to close **finding** operations in the operating system.

ABSTRACT WORD COUNT: 234

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 971001 A1 Published application (A1with Search Report
;A2without Search Report)
Examination: 971203 A1 Date of filing of request for examination:
971002
Examination: 980304 A1 Date of despatch of first examination report:
980120

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9709W4	1005
SPEC A	(English)	9709W4	2508
Total word count - document A			3513
Total word count - document B			0
Total word count - documents A + B			3513

18/5/6

DIALOG(R)File 348:European Patents

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00863127

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

Programmable options for volume mount on a computing system

Programmierbare Optionen zum Einhängen von Datenträgern in einem Rechnersystem

Options programmables pour monter des volumes dans un systeme informatique

PATENT ASSIGNEE:

SUN MICROSYSTEMS INC., (1392735), 2550 Garcia Avenue, MS PAL1-521,
Mountain View, California 94043-1100, (US), (applicant designated
states: DE;FR;GB;NL;SE)

INVENTOR:

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LEGAL REPRESENTATIVE:

Hanna, Peter William Derek (72341), Tomkins & Co., 5 Dartmouth Road,
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PATENT (CC, No, Kind, Date): EP 793183 A1 970903 (Basic)

APPLICATION (CC, No, Date): EP 97200519 970222;

PRIORITY (CC, No, Date): US 608756 960229

DESIGNATED STATES: DE; FR; GB; NL; SE

INTERNATIONAL PATENT CLASS: G06F-017/30 ; G06F-003/06

ABSTRACT EP 793183 A1

Programmable options for a mount command are checked for compatibility with file system types when attaching a media file system (36) to a existing file system in a computing system. The options are programmed

into a mount entry (10) in a configuration file (22). The configuration file is used to generate the mount command (34). The mount entry defines file system types for the media file system and programmable options to control operation of the computing system with the media file system. The file system types, the programmable options and the compatibility of the programmable options with the file system types are all verified.
ABSTRACT WORD COUNT: 105

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 970903 A1 Published application (A1with Search Report
;A2without Search Report)
Examination: 980107 A1 Date of filing of request for examination:
971103
Examination: 980325 A1 Date of despatch of first examination report:
980205

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9708W5	1501
SPEC A	(English)	9708W5	3891
Total word count - document A			5392
Total word count - document B			0
Total word count - documents A + B			5392

18/5/7

DIALOG(R) File 348:European Patents

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00805816

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

Document management device

Dokumentverwaltungsgerat

Dispositif de gestion de documents

PATENT ASSIGNEE:

FUJI XEROX CO., LTD., (450443), 17-22, Akasaka 3-chome, Minato-ku, Tokyo
107, (JP), (applicant designated states: DE;FR;GB)

INVENTOR:

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Sekijima, Akifumi, c/o Fuji Xerox Co., Ltd., 430 Sakai, Nakai-machi,
Ashigarakami-gun, Kanagawa, (JP)

LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 749077 A2 961218 (Basic)
EP 749077 A3 971203

APPLICATION (CC, No, Date): EP 96109313 960611;

PRIORITY (CC, No, Date): JP 95144751 950612; JP 96133684 960528

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-017/30

ABSTRACT EP 749077 A2

A document management device and method can comprise: a database for storing and managing document data; document **retrieving** means (28) for **retrieving** the document data from said database; document display means (22) for displaying **retrieved document data**; **format storage** means (3) for storing evaluation **format** including an identifier and a **plurality** of evaluation attribute definitions, said evaluation format specifying evaluation **data structure**; document selecting means (29) for selecting one document data among the displayed document data; format selecting means (24) for selecting evaluation format(s); attribute value input means for inputting attribute values that result from evaluation of document data; evaluation data storage means (25) for storing the evaluation data; information creating means (26) for creating binding information to bind the document data with the evaluation data; and information storage means (29) for storing created binding information. (see image in original document)

ABSTRACT WORD COUNT: 100

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 961218 A2 Published application (A1with Search Report
;A2without Search Report)
Search Report: 971203 A3 Separate publication of the European or
International search report
Examination: 980617 A2 Date of filing of request for examination:
980421

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	923
SPEC A	(English)	EPAB96	13917
Total word count - document A			14840
Total word count - document B			0
Total word count - documents A + B			14840

18/5/8

DIALOG(R)File 348:European Patents

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00777496

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

Relational data base system and method

Relationelles Datenbanksystem und Verfahren

Systeme de base de donnees relationnelle et methode

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road,
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INVENTOR:

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Lehman, Tobin J., 175 Newel Avenue, Los Gatos, California 95130, (US)

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PATENT (CC, No, Kind, Date): EP 726536 A2 960814 (Basic)

EP 726536 A3 970423

APPLICATION (CC, No, Date): EP 96300341 960117;

PRIORITY (CC, No, Date): US 387048 950210

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-017/30

ABSTRACT EP 726536 A2

A relational data base management system that stores and retrieves large data objects (LOBs) from data base storage to evaluate assignment statements includes a data manager that mutates selected string operations into equivalent functions on a LOB operand that can be left in the data base, thereby eliminating the associated storage access operations. When the data manager receives an assignment statement containing one or more LOBs, the data manager first checks to determine if the statement can be mutated. If the statement can be mutated, then the mutation is performed. The mutated statement is then processed according to a conventional deferred evaluation scheme. If the assignment statement cannot be mutated, then the statement is evaluated according to a conventional deferred evaluation scheme. (see image in original document)

ABSTRACT WORD COUNT: 146

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 960814 A2 Published application (A1with Search Report
;A2without Search Report)
Examination: 970326 A2 Date of filing of request for examination:
970120
Search Report: 970423 A3 Separate publication of the European or

International search report

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	1397
SPEC A	(English)	EPAB96	7362
Total word count - document A			8759
Total word count - document B			0
Total word count - documents A + B			8759

18/5/9

DIALOG(R)File 348:European Patents
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00699029

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

A typesafe framework for dynamically extensible objects.

Ein typsicheres Rahmwerk für dynamische erweiterbaren Objekte.

Structure de travail supportant des objets dynamiquement extensibles dont le type est sécurisé.

PATENT ASSIGNEE:

SUN MICROSYSTEMS, INC., (1392730), 2550 Garcia Avenue, Mountain View, CA 94043, (US), (applicant designated states: DE;FR;IT;NL;SE)

INVENTOR:

Gibbons, Jonathan J., 269 Lassen Avenue, Mountain View, California 94043, (US)

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Goldstein, Theodore C., 875 La Para Avenue, Palo Alto, California 94306, (US)

Jordan, Michael J., 784 Josina Avenue, Palo Alto, California 94306, (US)

LEGAL REPRESENTATIVE:

Wombwell, Francis et al (46021), Potts, Kerr & Co. 15, Hamilton Square, Birkenhead Merseyside L41 6BR, (GB)

PATENT (CC, No, Kind, Date): EP 665493 A2 950802 (Basic)
EP 665493 A3 960228

APPLICATION (CC, No, Date): EP 95300024 950126;

PRIORITY (CC, No, Date): US 187972 940128

DESIGNATED STATES: DE; FR; IT; NL; SE

INTERNATIONAL PATENT CLASS: G06F-009/45 ; G06F-009/44 ; G06F-017/30

ABSTRACT EP 665493 A2

The present invention provides a system and process for making use of pre-existing data-structures which represent a computer program, in a way which has the advantages of shortening the time and cost required to create a new version of the computer program. The pre-existing data-structure is modified to produce a shadow-data-structure which contains only shadows of those elements or nodes of the pre-existing data-structure required to perform the tasks of the new version of the computer program. The present invention includes processes to make the data-structure of the original program shadowable; processes to use data from the original program compilation process in compiling the new version of the program, including processes to create a shadow data-structure; and processes to use the new version of the computer program along with the shadow data-structure to create the desired execution. This new version of the computer program is typically a tool for checking or observing the original program's execution in some manner. Moreover, the system and processes disclosed provide mechanisms for a software manufacturer to create type-safe versions of a connected collection of objects which are dynamically extensible.

ABSTRACT WORD COUNT: 205

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 950802 A2 Published application (Alwith Search Report ;A2without Search Report)

Change: 960221 A2 Obligatory supplementary classification (change)

Search Report: 960828 A3 Separate publication of the European or
International search report
Examination: 961016 A2 Date of filing of request for examination:
960817

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	1996
SPEC A	(English)	EPAB95	10812
Total word count - document A			12808
Total word count - document B			0
Total word count - documents A + B			12808

18/5/10

DIALOG(R)File 348:European Patents
(c) 1999 European Patent Office. All rts. reserv.

00663954

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

Matchmaker for exchanging data between objects in an object based data processing system.

Anpassungsprogramm zum Datenaustausch zwischen Objekten in einem objektbasierten Datenverarbeitungssystem.

Programme pour faire ressortir les correspondances lors d'echange de donnees entre objets dans un systeme de traitement de donnees base sur un objet.

PATENT ASSIGNEE:

WANG LABORATORIES INC., (333560), One Industrial Avenue, Lowell, MA 01851
, (US), (applicant designated states: BE;DE;FR;GB)

INVENTOR:

Khoyi, Dana, 14 Chickory Road, Westford, Massachusetts 01886, (US)
Soucie, Marc San, 4230 N.W. 147th Avenue,, Portland, Oregon 97229, (US)
Surprenant, Carolyn E., 26 Colonial Drive, Dracut, MA 01826, (US)
Stern, Laura O., 26 Munroe Avenue, Woburn, MA 01801, (US)
Pham, Ly-Huong Thi, 9 Greenvalley Drive, Chelmsford, MA 01824, (US)

LEGAL REPRESENTATIVE:

Behrens, Dieter, Dr.-Ing. et al (1701), Wuesthoff & Wuesthoff Patent- und
Rechtsanwalte Schweigerstrasse 2, 81541 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 637806 A2 950208 (Basic)
EP 637806 A3 960501

APPLICATION (CC, No, Date): EP 94116810 880819;

PRIORITY (CC, No, Date): US 88622 870821

DESIGNATED STATES: BE; DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-017/30 ; G06F-009/44 ; G06F-009/46 ;
G06F-015/40

ABSTRACT EP 637806 A2

A matchmaker facility (810) permits two processes that are to cooperate in a data interchange operation identify each other and to identify data formats they have in common. A facility (222) is provided for managing shared data "resources". Customized versions of resources can be created and co-exist with standard resources. A resource retrieval function determines whether a customized or a standard resource is to be returned in response to each request for a resource.
(see image in original document)

ABSTRACT WORD COUNT: 94

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 950208 A2 Published application (Alwith Search Report
;A2without Search Report)

Examination: 950208 A2 Date of filing of request for examination:
941121

Change: 950301 A2 Inventor (change)

Change: 950301 A2 Title of invention (French) (change)

Change: 950517 A2 Inventor (change)

Change: 950607 A2 Inventor (change)

Change: 960320 A2 Obligatory supplementary classification

(change)
 Search Report: 960501 A3 Separate publication of the European or
 International search report
 Change: 970716 A2 Representative (change)
 *Assignee: 970716 A2 Applicant (transfer of rights) (change): KODAK
 LIMITED (258581) P.O. Box 66 Station Road Hemel
 Hempstead Herts, HP1 1JU (GB) (applicant
 designated states: BE;DE;FR;GB)
 *Assignee: 970716 A2 Previous applicant in case of transfer of
 rights (change): WANG LABORATORIES INC.
 (333560) One Industrial Avenue Lowell, MA 01851
 (US) (applicant designated states: BE;DE;FR;GB)
 Examination: 980401 A2 Date of despatch of first examination report:
 980212

LANGUAGE (Publication,Procedural,Application): English; English; English
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF2	3399
SPEC A	(English)	EPABF2	42127
Total word count - document A			45526
Total word count - document B			0
Total word count - documents A + B			45526

18/5/11

DIALOG(R) File 348:European Patents
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00441169

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348
**Method for identifying documents having a particular attribute using a
 vector relational characteristic object**
**Verfahren um Dokumente, die ein bestimmtes Attribut haben, mit Hilfe eines
 vektorrelationalen charakteristischen Objektes zu identifizieren**
**Methode pour identifier les documents ayant un attribut spécifique en
 utilisant un objet caractéristique a relation vectorielle**

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road,
 Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

Williams, Marvin L., 1152 Settlers Way, Lewisville, TX 75067, (US)

LEGAL REPRESENTATIVE:

de Pena, Alain et al (15151), Compagnie IBM France Departement de
 Propriete Intellectuelle, F-06610 La Gaude, (FR)

PATENT (CC, No, Kind, Date): EP 437159 A2 910717 (Basic)
 EP 437159 A3 910731
 EP 437159 B1 960117

APPLICATION (CC, No, Date): EP 90480166 901017;

PRIORITY (CC, No, Date): US 454797 891219

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-017/30 ; G06F-153/00

CITED PATENTS (EP A): US 4803614 A; EP 229232 A; EP 157539 A; US 4817036 A;
 US 4811199 A

ABSTRACT EP 437159 A2

This invention relates to a method of identifying attributes when
 documents are grouped to form document relationships within a document
 management system. Document groupings frequently require the
 identification of all documents within the relationship with a particular
 attribute. However, when individual documents store attributes along with
 document contents, individual querying of each document is required when
 the information is sought later. This invention provides a Vector
 Relational Characteristical Object, available to access mechanisms, and
 containing fields to identify a particular attribute. Each field in the
 Vector Relational Characteristical Object is followed by an identifier
 which uniquely identifies the document which possess the particular
 attribute.

ABSTRACT WORD COUNT: 106

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 910717 A2 Published application (Alwith Search Report
;A2without Search Report)
Examination: 910717 A2 Date of filing of request for examination:
901213
Search Report: 910731 A3 Separate publication of the European or
International search report
Change: 910807 A2 Obligatory supplementary classification
(change)
Change: 930804 A2 Representative (change)
Examination: 940803 A2 Date of despatch of first examination report:
940620
Grant: 960117 B1 Granted patent
Oppn None: 970108 B1 No opposition filed

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB96	271
CLAIMS B	(German)	EPAB96	281
CLAIMS B	(French)	EPAB96	305
SPEC B	(English)	EPAB96	3614
Total word count - document A			0
Total word count - document B			4471
Total word count - documents A + B			4471

18/5/12

DIALOG(R)File 348:European Patents

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00366395

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

Document processing system

Dokumentenverarbeitungssystem

Systeme pour traitement de documents

PATENT ASSIGNEE:

KABUSHIKI KAISHA TOSHIBA, (213130), 72, Horikawa-cho, Saiwai-ku,
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states: DE;FR;GB)

INVENTOR:

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Fukui, Mika Intellectual Property Division, Kabushiki Kaisha Toshiba 1-1
Shibaura 1-chome, Minato-ku Tokyo 105, (JP)
Iwai, Isamu Intellectual Property Division, Kabushiki Kaisha Toshiba 1-1
Shibaura 1-chome, Minato-ku Tokyo 105, (JP)

LEGAL REPRESENTATIVE:

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Fields, London WC2A 3LS, (GB)

PATENT (CC, No, Kind, Date): EP 347254 A2 891220 (Basic)
EP 347254 A3 921202
EP 347254 B1 960327

APPLICATION (CC, No, Date): EP 89306155 890616;

PRIORITY (CC, No, Date): JP 88149170 880616

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-017/00 ; G06F-017/21 ; G06F-017/22 ;
G06F-017/24

CITED PATENTS (EP A): EP 285449 A; EP 291906 A

CITED REFERENCES (EP A):

IBM TECHNICAL DISCLOSURE BULLETIN. vol. 30, no. 5, October 1987, NEW YORK
US pages 206 - 207 , XP000045734 'Layout Method for Document Having
Text and Non-Text Areas'

PATENT ABSTRACTS OF JAPAN vol. 10, no. 169 (P-468)14 June 1986

IEEE SOFTWARE vol. 4, no. 3, May 1987, LOS ALAMITOS US pages 70 - 77 ,
XP000003965 G. GRUMAN 'Desktop? Yes. Publishing? Not Quite.';

ABSTRACT EP 347254 A2

A document processing system for laying out text data and image data referred to in the text data, thereby forming a document data. The system comprises a format-data storage section (32), a reference-data storage section (33), and a layout section (4). The format-data storage section (32) stores format data including region-attribute data specifying an image-layout inhibited region in which to lay out no image data. The reference-data storage section (33) stores reference data representing the relationship between the image data and an image-referring part of the text data in which the image data is referred to. The layout section (4) lays out the text data in accordance with the region-attribute data and the reference data, and lays out the image data outside the image-layout inhibited region specified by the region-attribute data, in accordance with the reference data, thereby to form document data. (see image in original document)

ABSTRACT WORD COUNT: 151

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 891220 A2 Published application (Alwith Search Report
;A2without Search Report)
Examination: 891220 A2 Date of filing of request for examination:
890711
Change: 911227 A2 Representative (change)
Search Report: 921202 A3 Separate publication of the European or
International search report
Examination: 941117 A2 Date of despatch of first examination report:
941004
Grant: 960327 B1 Granted patent
Oppn None: 970319 B1 No opposition filed

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	1171
CLAIMS B	(English)	EPAB96	822
CLAIMS B	(German)	EPAB96	684
CLAIMS B	(French)	EPAB96	1022
SPEC A	(English)	EPABF1	3700
SPEC B	(English)	EPAB96	3809
Total word count - document A			4871
Total word count - document B			6337
Total word count - documents A + B			11208

18/5/13

DIALOG(R)File 348:European Patents

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00306062

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

Digital data processing system.

Digitales Datenverarbeitungssystem.

Systeme du traitement de donnees numeriques.

PATENT ASSIGNEE:

DATA GENERAL CORPORATION, (410940), Route 9, Westboro Massachusetts 01581
, (US), (applicant designated states: AT;BE;CH;DE;FR;GB;IT;LI;LU;NL;SE)

INVENTOR:

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Schleimer, Stephen I., 1208 Ellen Place, Chapel Hill North Carolina 27514
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LEGAL REPRESENTATIVE:

Robson, Aidan John et al (69471), Reddie & Grose 16 Theobalds Road,
London WC1X 8PL, (GB)

PATENT (CC, No, Kind, Date): EP 300516 A2 890125 (Basic)
EP 300516 A3 890426
EP 300516 B1 931124

APPLICATION (CC, No, Date): EP 88200921 820521;

PRIORITY (CC, No, Date): US 266413 810522; US 266539 810522; US 266521
810522; US 266415 810522; US 266409 810522; US 266424 810522; US 266421
810522; US 266404 810522; US 266414 810522; US 266532 810522; US 266403
810522; US 266408 810522; US 266401 810522; US 266524 810522

DESIGNATED STATES: AT; BE; CH; DE; FR; GB; IT; LI; LU; NL; SE

INTERNATIONAL PATENT CLASS: G06F-009/46 ; G06F-012/14

CITED REFERENCES (EP A):

PROCEEDINGS OF THE SPRING JOINT COMPUTER CONFERENCE, Atlantic City, 1972,
pages 417-429, Afips Press; G.S. GRAHAM et al.: "Protection-Principles
and practice"

IDEM.

COMPCON SPRING'80, digest of papers, San Francisco, 25th-28th February
1980, pages 340-343, IEEE, New York, US; T.D. McCREERY: "The X-tree
operating system: Bottom layer"

IDEM.

COMPUTER ARCHITECTURE NEWS, October 1980, pages 4-11; J. RATTNER et al.:
"Object-based computer architecture"

A.S. TANENBAUM: "Structured computer organization", 1976, pages 264-268,
Prentice-Hall, Inc., Englewood Cliffs, New Jersey, US

IBM TECHNICAL DISCLOSURE BULLETIN, vol. 22, no. 3, August 1979, pages
1286-1289, New York, US; D.B. LOMET: "Regions for controlling the
propagation of addressability in capability systems";

ABSTRACT EP 300516 A2

The system has memory storing data and instructions and processing
means. Memory is organized into objects identified by unique identifiers
(UIDs) comprising a logical allocation unit identifier (LAUID) and an
object serial number (OSN) provided by an architectural clock, associated
with an offset (O) and length (L) enabling logical addresses to be
derived. Instructions (SIN's) are in an intermediate level language -
(SOP's = S - language operations). Associated names (NAME A, NAME B)
point to name tables which identify subjects to which the processor may
respond in relation to the instruction in question. Protection is
afforded by restricting access to memory operations to a subject
pertaining to the set of subjects pertaining to the object in question.

ABSTRACT WORD COUNT: 122

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 890125 A2 Published application (A1with Search Report
;A2without Search Report)
Search Report: 890426 A3 Separate publication of the European or
International search report
Examination: 891206 A2 Date of filing of request for examination:
891011
Examination: 920115 A2 Date of despatch of first examination report:
911202
Grant: 931124 B1 Granted patent
Lapse: 940713 B1 Date of lapse of the European patent in a
Contracting State: SE 931124
Lapse: 940810 B1 Date of lapse of the European patent in a
Contracting State: AT 931124, SE 931124
Change: 940810 B1 Representative (change)
Lapse: 940928 B1 Date of lapse of the European patent in a
Contracting State: AT 931124, NL 931124, SE
931124
Oppn None: 941117 B1 No opposition filed
Lapse: 941130 B1 Date of lapse of the European patent in a
Contracting State: AT 931124, BE 931124, NL
931124, SE 931124
Lapse: 950118 B1 Date of lapse of the European patent in a
Contracting State: AT 931124, BE 931124, FR

LANGUAGE (Publication,Procedural,Application): English; English; English
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	1018
CLAIMS B	(German)	EPBBF1	868
CLAIMS B	(French)	EPBBF1	1115
SPEC B	(English)	EPBBF1	154256
Total word count - document A			0
Total word count - document B			157257
Total word count - documents A + B			157257

18/5/14

DIALOG(R)File 348:European Patents

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00306057

ORDER fax of complete patent from Dialog SourceOne. See HELP ORDER 348

Digital data processing system.

Digitales Datenverarbeitungssystem.

Systeme de traitement de donnees numeriques.

PATENT ASSIGNEE:

DATA GENERAL CORPORATION, (410940), Route 9, Westboro Massachusetts 01581
 , (US), (applicant designated states: AT;BE;CH;DE;FR;GB;IT;LI;LU;NL;SE)

INVENTOR:

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Bernstein, David H., 41 Bay Colony Drive, Ashland Massachusetts 01721,
 (US)

Bratt, Richard Glenn, 9 Brook Trail Road, Wayland Massachusetts 01778,
 (US)

Clancy, Gerald F., 13069 Jaccaranda Center, Saratoga California 95070,
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Gavrin, Edward S., Beaver Pond Road RFD 4, Lincoln Massachusetts 01773,
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Jones, Thomas M. Jones, 300 Reade Road, Chapel Hill North Carolina 27514,
 (US)

Katz, Lawrence H., 10943 S. Forest Ridge Road, Oregon City Oregon 97045,
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Mundie, Craig James, 136 Castlewood Drive, Cary North Carolina, (US)

Pilat, John F., 1308 Ravenhurst Drive, Raleigh North Carolina 27609, (US)

Schleimer, Stephen I., 1208 Ellen Place, Chapel Hill North Carolina 27514
 , (US)

Wallach, Steven J., 12436 Green Meadow Lane, Saratoga California 95070,
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Wells, Douglas, M., 106 Robin Road, Chapel Hill North Carolina 27514,
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LEGAL REPRESENTATIVE:

Pears, David Ashley et al (34761), REDDIE & GROSE 16 Theobalds Road,
 London WC1X 8PL, (GB)

PATENT (CC, No, Kind, Date): EP 290110 A2 881109 (Basic)
 EP 290110 A3 890412

APPLICATION (CC, No, Date): EP 88200916 820521;

PRIORITY (CC, No, Date): US 266401 810522

DESIGNATED STATES: AT; BE; CH; DE; FR; GB; IT; LI; LU; NL; SE

INTERNATIONAL PATENT CLASS: G06F-012/06 ; G06F-009/30

CITED PATENTS (EP A): FR 2408176 A; EP 10185 A; FR 2253422 A

CITED REFERENCES (EP A):

SYSTEMES-COMPUTERS-CONTROLS, vol. 10, no. 6, November/December 1979,
 pages 41-50, Scripta Publishing Co., Silver Spring, Maryland, US; K.

TAMARU et al.: "A high-performance microcomputer PMCS"

COMPUTER ARCHITECTURE NEWS, October 1980, pages 4-11; J. RATTNER et al.:
 "Object-based computer architecture"

IBM TECHNICAL DISCLOSURE BULLETIN, vol. 19, no. 1, June 1976, pages
 67-70, New York, US; T.J. DVORAK et al.: "Hardware assist for microcode
 execution of storage-to-storage move instructions";

ABSTRACT EP 290110 A2

A digital computer system in which data storage is referred to by a descriptor comprising an object number (AON 27111) denoting a variable-length block of storage, an offset (OFF 27113) indicating how far into that block a desired data item begins, and a length field (LEN 27115) denoting the length of the desired data item. Separate means exist for manipulating each of the three descriptor portions, thus facilitating repetitive operations on related or contiguous operands. Various levels of microcode control are included. Each level of microcode control has its own stack (902-905) facilitating interrupts between levels. Stacks are duplicated in "secure stacks" (504) in memory to protect against loss of state data from the stacks.

ABSTRACT WORD COUNT: 119

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 881109 A2 Published application (Alwith Search Report
;A2without Search Report)
Search Report: 890412 A3 Separate publication of the European or
International search report
Examination: 891206 A2 Date of filing of request for examination:
891011
Examination: 920122 A2 Date of despatch of first examination report:
911205
Refusal: 931124 A2 Date on which the European patent application
was refused: 930710

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	1390
SPEC A	(English)	EPABF1	155314
Total word count - document A			156704
Total word count - document B			0
Total word count - documents A + B			156704

BEING MADE IN THE TRAINING OF PROGRAMMERS IN NON-NUMERICAL PROGRAMMING AND DOCUMENTATION AND IN TRAINING OF DOCUMENTALISTS. AN AUTHOR-SUBJECT INDEX COMPLETES THE BOOK NINETEEN AUTHORS CONTRIBUTED.

Descriptors: COMPUTER DOCUMENTATION APPLICATIONS; DOCUMENTATION AUTOMATION
COMPUTER METHODS; DOCUMENTATION TRAINING METHODS; GERMANY CENTER
COMPUTERIZED DOCUMENTATION; TRAINING METHODS IN DOCUMENTATION
Subject Class Header (Number): Libraries and Information Services, General Aspects (07.00)

13/5/19 (Item 1 from file: 2)

DIALOG(R) File 2:INSPEC

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6135308 INSPEC Abstract Number: C1999-02-7160-029

Title: Impacts of data mining technology on product design and process planning

Author(s): Dagli, C.H.; Lee, H.-C.

Author Affiliation: Dept. of Eng. Manage., Missouri Univ., Rolla, MO, USA

Conference Title: Computer Applications in Production and Engineering.

IFIP TC5 International Conference on Computer Applications in Production and Engineering (CAPE'97) p.58-70

Editor(s): Plonka, F.; Olling, G.

Publisher: Chapman & Hall, London, UK

Publication Date: 1997 Country of Publication: UK xii+740 pp.

ISBN: 0 412 82110 9 Material Identity Number: XX-1998-02538

Conference Title: Proceedings of Computer Applications in Production and Engineering

Conference Sponsor: Soc. Manuf. Eng.; North American Manuf. Res. Inst

Conference Date: 5-7 Nov. 1997 Conference Location: Detroit, MI, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: Recent advances in computers and networking technologies and a fast-growing Internet community have created immense distributed databases located miles away and having the capability of being updated continuously without the knowledge of the possible and prospective users. The ability to collect and **store all kinds of data** have outpaced the capabilities of individuals to analyze, summarize, and extract "knowledge" from them. Traditional methods of data analysis, based mainly on the analysts dealing directly with the data, is no longer the best alternative to be used. Although the database technology provides the basic tools for efficient storage and lookup for large data sets, the issues of how to enable engineers to understand large bodies of data remains a difficult problem. Recently, data mining approaches based on artificial neural networks, fuzzy logic, machine learning, statistics, expert systems, and data visualization have been creating new intelligent tools for automated data mining and knowledge discovery. All these **changes** will have a profound impact on current practices used in manufacturing. The way bills of materials are created, products designed and process plans generated will be definitely different with the availability of this new technology. The nature of these **changes** and their implication on current practices is discussed with reference to an intelligent data mining system being developed in the Smart Engineering Systems Design Laboratory. (42 Refs)

Descriptors: computer aided production planning; data analysis; data mining; data visualisation; distributed databases; expert systems; fuzzy logic; Internet; learning (artificial intelligence); manufacture; neural nets; product development; statistics

Identifiers: product design; process planning; Internet; distributed databases; data analysis; artificial neural networks; fuzzy logic; machine learning; statistics; expert systems; data visualization; intelligent tools; automated data mining; knowledge discovery; manufacturing; bills of materials; smart engineering systems

Class Codes: C7160 (Manufacturing and industrial administration); C6170K (Knowledge engineering techniques); C6160B (Distributed databases); C7480 (Production engineering computing); C5290 (Neural computing techniques)

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13/5/20 (Item 2 from file: 2)
DIALOG(R)File 2:INSPEC
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5731426 INSPEC Abstract Number: C9712-6115-006

Title: VRCS: integrating version control and module management using interactive three-dimensional graphics

Author(s): Koike, H.; Hui-Chu Chu

Author Affiliation: Graduate Sch of Inf. Syst., Univ. of Electro-Commun., Tokyo, Japan

Conference Title: Proceedings. 1997 IEEE Symposium on Visual Languages (Cat. No.97TB100180) p.168-73

Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA

Publication Date: 1997 Country of Publication: USA xiii+451 pp.

ISBN: 0 8186 8144 6 Material Identity Number: XX97-02464

U.S. Copyright Clearance Center Code: 1049-2615/97/\$10.00

Conference Title: Proceedings. 1997 IEEE Symposium on Visual Languages (Cat. No.97TB100180)

Conference Sponsor: IEEE Comput. Soc. Tech. Committee on Multimedia Comput

Conference Date: 23-26 Sept. 1997 Conference Location: Isle of Capri, Italy

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: Version control and module management are very important in practical software development. In UNIX, the Revision Control System (RCS) or the Source Code Control System (SCCS) is used in general as a version control tool. However, they (1) lack the ability to explicitly display version **changes**; (2) require complicated commands to be **typed**; and (3) lack the ability to **manage multiple files** and modules. This paper proposes a solution for these issues by applying 3D visualization. A prototype system called VRCS (Visual RCS) was developed, in which each piece of version information stored in an RCS history file is displayed as a 2D tree by taking the z-axis as time. Other 2D trees are laid out in 3D space in the same way. In our visualization, files which compose a certain release of the software are connected by a line called a relation-link. By using GUIs, users can check in/out each version easily and interactively. More importantly, just by choosing the relation-link, a certain release is rebuilt automatically. (14 Refs)

Descriptors: computer aided software engineering; configuration management; data visualisation; graphical user interfaces; interactive systems; project support environments; solid modelling; subroutines; tree data structures; Unix; visual programming

Identifiers: VRCS; Visual Revision Control System; version control; module management; interactive 3D graphics; software development; UNIX; Source Code Control System; SCCS; version change display; multiple file management; 3D visualization; prototype system; RCS history file; 2D tree; time axis; relation-link; GUI; version check-in; version check-out; automatic software release rebuilding

Class Codes: C6115 (Programming support); C6110B (Software engineering techniques); C6130B (Graphics techniques); C6120 (File organisation); C6180G (Graphical user interfaces); C6110V (Visual programming)

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13/5/21 (Item 3 from file: 2)
DIALOG(R)File 2:INSPEC
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5672469 INSPEC Abstract Number: B9710-6210L-031, C9710-7250R-005

Title: Modeling and querying textual data using E-R models and SQL

Author(s): Kashyap, V.; Rusinkiewicz, M.

Author Affiliation: MCC, Austin, TX, USA

Conference Title: Proceedings of the Workshop on Management of Semi-Structured Data p.67-74

Publisher: AT & T Labs - Research, Murray Hill, NJ, USA

Publication Date: 1997 Country of Publication: USA v+99 pp.

Material Identity Number: XX97-01581

Conference Title: Proceedings of Workshop on Management of Semi-Structured Data

Conference Sponsor: NSF

Conference Date: 16 May 1997 Conference Location: Tucson, AZ, USA

Availability: Dan Sucia, AT&T Labs, Room 2D 114A, 600 Mountain Avenue, Murray Hill, NJ 07974, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: Recent emerging technologies such as internetworking and the World Wide Web have significantly expanded the **types** of data available to an information **management** system. Textual **data** is the **most** prevalent of these data **types**. We discuss an approach based on domain ontologies (expressed as E-R models) and SQL for modeling and querying textual data as implemented in the InfoSleuth project at MCC. We identify the basic shortcomings of current approaches for textual data on the Web: (a) lack of precision; and (b) lack of interoperation and discuss how our approach helps alleviate the above shortcomings. Techniques for mapping concepts in a domain ontology to the underlying textual data and for **translation** of queries expressed in SQL to the underlying information retrieval operations are presented. Limitations of current indexing technologies in supporting expressions **translated** from SQL are identified and heuristic approaches are proposed to overcome the same. (16 Refs)

Descriptors: entity-relationship modelling; Internet; internetworking; query processing; SQL; word processing

Identifiers: textual data modeling; textual data querying; E-R models; SQL; internetworking; World Wide Web; information management system; data types; domain ontologies; InfoSleuth project; domain ontology; query translation; information retrieval operations; indexing technologies; heuristic approaches

Class Codes: B6210L (Computer communications); C7250R (Information retrieval techniques); C5620W (Other computer networks); C7210 (Information services and centres); C6130D (Document processing techniques); C6140D (High level languages)

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13/5/22 (Item 4 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 1999 Institution of Electrical Engineers. All rts. reserv.

5357326 INSPEC Abstract Number: C9610-6160-004

Title: Value added storage server for database sharing

Author(s): Nakamura, M.; Uchiyama, K.; Ikeda, H.

Author Affiliation: Tokyo Electr. Power Co. Inc., Japan

Journal: Transactions of the Institute of Electrical Engineers of Japan, Part C vol.116-C, no.6 p.626-34

Publisher: Inst. Electr. Eng. Japan,

Publication Date: June 1996 Country of Publication: Japan

CODEN: DGRCDZ ISSN: 0385-4221

SICI: 0385-4221(199606)116C:6L.626:VASS;1-E

Material Identity Number: T197-96005

Language: Japanese Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: This paper describes a new information storage system named VASS (Value Added Storage System) which is designed to **manage various types** of **data** stored in different **types** of information systems. The **data managed** in VASS is represented in a uniform structure of a single table with 5 columns: value, data-type, attribute, entity and period. VASS can manage not only conventional data, numerals, text, tables, but also data of a new type, images, voice and videos. In spite of the simple storage structure of VASS, it is very easy to **change** the information structure. VASS can accept data with various formats and expose data with various formats, i.e., we can use VASS as a data transformation system. VASS can also play a role in historical data management because it manages data with a valid period. It is useful for management of office documents, research documents and human affairs. VASS supports distributed data management. This paper also discusses the requirements for information sharing and the efficiency of VASS to attain them. Finally, an overview of

the prototype system VASS is introduced. (12 Refs)

Descriptors: business data processing; database management systems; document handling; office automation

Identifiers: Value Added Storage System; information storage system; VASS; database sharing; numerals; text; tables; image database; voice; video; data transformation system; historical data management; office document database; research document database; human affairs; distributed data management; information sharing; prototype system

Class Codes: C6160 (Database management systems (DBMS)); C6130D (Document processing techniques); C7100 (Business and administration)

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13/5/23 (Item 5 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 1999 Institution of Electrical Engineers. All rts. reserv.

04375802 INSPEC Abstract Number: C9305-7230-002

Title: Hypertext multimedia software: Bell Atlantic DocuSource

Author(s): Flanders, B.

Author Affiliation: Kansas State Libr., Topeka, KS, USA

Journal: Computers in Libraries vol.13, no.1 p.35-6, 38-9

Publication Date: Jan. 1993 Country of Publication: USA

CODEN: CPLIE8 ISSN: 1041-7915

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P); Product Review (R)

Abstract: The Bell Atlantic DocuSource system is an electronic information management system consisting of software and equipment that enables readers to prepare, edit, and deliver text and images online. The system permits organizations to **convert** large volumes of print-based documents from a variety of sources into interactive electronic libraries. The document library management design lets organizations effectively **manage multiple** collections of **documents** and distribute them using a **variety** of media including local area networks (LANs) and CD-ROM. Readers can **convert** their existing electronic documents into computerized hypertext documents for eventual 'tagging'. Using hypertext technology, they then can sort quickly and easily through one or more texts to locate specific pieces of information without having to read sequentially through an entire document. (0 Refs)

Descriptors: electronic publishing; hypermedia; multimedia systems; software packages

Identifiers: hypertext multimedia software; text preparation; image preparation; text editing; image editing; Bell Atlantic DocuSource system; electronic information management system; interactive electronic libraries; document library management; local area networks; CD-ROM; computerized hypertext documents

Class Codes: C7230 (Publishing and reproduction); C7250 (Information storage and retrieval)

13/5/24 (Item 6 from file: 2)

DIALOG(R) File 2:INSPEC

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04374127

Title: Moving business abroad? Take a VAN!

Author(s): Korzeniowski, P.

Journal: Datamation vol.39, no.3 p.80/13-15

Publication Date: 1 Feb. 1993 Country of Publication: USA

CODEN: DTMNAT ISSN: 0011-6963

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: Today, when corporations examine the best way to grow their businesses, they no longer limit opportunities to their own borders. This **change** presents managers of information systems with significant new challenges. A company must connect new foreign offices to its other sites. When problems arise on communications lines, the manager must work with foreign telecommunications carriers to correct them. Rather than take on

these chores themselves, a number of firms are relying on VAN (valued-added network) suppliers to provide international links. VAN suppliers can offer telecommunications services for **various types of data** communications lines, network **management** functions, protocol **conversion** and high-end features such as support for electronic mail. (0 Refs)

Descriptors: telecommunication network management

Identifiers: management; corporations; businesses; information systems; telecommunications; valued-added network; international links; VAN

Class Codes: D4000 (Office automation - communications)

13/5/25 (Item 7 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 1999 Institution of Electrical Engineers. All rts. reserv.

04222464 INSPEC Abstract Number: C9210-7140-022

Title: Introducing a generalized multiple-choice question algorithm into a database user-interface

Author(s): Essin, D.J.

Author Affiliation: Sch. of Med., Univ. of Southern California, Los Angeles, CA, USA

Conference Title: Software Engineering in Medical Informatics. Proceedings of the IMIA Working Conference p.307-22

Editor(s): Timmers, T.; Blum, B.I.

Publisher: North-Holland, Amsterdam, Netherlands

Publication Date: 1991 Country of Publication: Netherlands xx+547 pp.

ISBN: 0 444 89013 0

Conference Sponsor: Unisys

Conference Date: 8-10 Oct. 1990 Conference Location: Amsterdam, Netherlands

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: This article describes an algorithm that can be incorporated into medical database applications that systematically handles all aspects of processing multiple-choice questions. A library of questions and responses is dynamically linked to that data-entry user-interface. The responses may be of different basic **data -types** since **all storage** is alphanumeric. The **data** validation process is rule-based. The algorithm consults the library to obtain the validation criteria for each field and to assist users in making selections. A convention is defined for allowing non-confirming data to be entered if necessary. Data are stored in coded form but are always **translated** into readable text by the algorithm before presentation to the user whether during data entry or when reports are prepared from the database. As implemented the components of the algorithm function as extensions of the database environment. They are modular and can be installed and configured without programming, allowing users to create and maintain their own applications. (12 Refs)

Descriptors: medical administrative data processing; transaction processing; user interfaces

Identifiers: multiple-choice question algorithm; medical database; data-entry user-interface; data-types; alphanumeric; data validation; rule-based; programming

Class Codes: C7140 (Medical administration); C6180 (User interfaces)

13/5/26 (Item 8 from file: 2)

DIALOG(R)File 2:INSPEC

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04012350 INSPEC Abstract Number: C91072336

Title: A new plane-sweep algorithm based on spatial data structure for overlapped rectangles in 2-D plane

Author(s): Pei-Yung Hsiao; Chia-Chun Tsai

Author Affiliation: Nat. Chiao Tung Univ., Hsinchu, Taiwan

Conference Title: Proceedings. Fourteenth Annual International Computer Software and Applications Conference (Cat. No.90CH2923-1) p.347-52

Editor(s): Knafl, G.J.

Publisher: IEEE Comput. Soc. Press, Los Alamitos, CA, USA

Publication Date: 1990 Country of Publication: USA xix+739 pp.
ISBN: 0 8186 2054 4
U.S. Copyright Clearance Center Code: 0730-3157/90/0000-0347\$01.00
Conference Sponsor: IEEE
Conference Date: 31 Oct.-2 Nov. 1990 Conference Location: Chicago, IL,
USA

Language: English Document Type: Conference Paper (PA)
Treatment: Practical (P)

Abstract: The authors present a novel plane-sweep algorithm based on spatial data structures with region query operations. Such an algorithm is applicable to the problems of VLSI layout design and image processing. It has a computing time of $O(N \log N)$ and allows the functional operations of region search of the spatial data structures to be useful in solving some of the specified problems. This algorithm has been successfully implemented in C language; it was based on two kinds of spatial data structures; **multiple storage** quad tree and quad list quad tree. This plane-sweep algorithm also has been successfully applied to problems of layout compaction, design rule checking, and minimum reliable partition. (19 Refs)

Descriptors: computational complexity; computational geometry; computer graphics; data structures; trees (mathematics)

Identifiers: 2D plane; plane-sweep algorithm; spatial data structure ; overlapped rectangles; region query operations; VLSI layout design; image processing; computing time; region search; C language; multiple storage quad tree; quad list quad tree; layout compaction; design rule checking; minimum reliable partition

Class Codes: C6130B (Graphics techniques); C6120 (File organisation); C4240 (Programming and algorithm theory)

13/5/27 (Item 9 from file: 2)

DIALOG(R)File 2:INSPEC

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03667780 INSPEC Abstract Number: C90047622

Title: **Issues in the implementation of an office information server**

Author(s): Barry, A.; Dillon, J.; Cahill, M.; Baker, S.; Caulfield, B.; Sheppard, M.

Author Affiliation: Dept. of Comput. Sci., Trinity Coll., Dublin Univ., Ireland

Conference Title: ESPRIT '88. Putting the Technology to Use. Proceedings of the 5th Annual ESPRIT Conference p.929-45 vol.2

Publisher: North-Holland, Amsterdam, Netherlands

Publication Date: 1988 Country of Publication: Netherlands 2 vol. xxiii+1759 pp.

ISBN: 0 444 87145 4

Conference Date: 14-17 Nov. 1988 Conference Location: Brussels, Belgium

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: The goals of the DOEIS project were to investigate aspects of the automation of office systems, and in particular to develop a subsystem, the Office Information Server, that manages office data ranging in complexity from standard types and virtual entities, to highly structured objects like documents. The server integrates the support for static data objects with the description and support for dynamic office work sequences (office procedures). A semantic data model and suite of languages is provided for the description and **manipulation of all data types**. The OIS operates in a loosely coupled networked environment where the interaction is based on client-server **conversations**. This paper outlines the data model, the architecture including the client-server interactions, the requirements for recovery and synchronisation in an office, and the office procedure support. It then focuses on aspects of the implementation to date, in particular: semantic analysis, inference, query response structure, synchronisation and recovery. (25 Refs)

Descriptors: data structures; inference mechanisms; office automation; synchronisation; system recovery; user interfaces

Identifiers: ESPRIT project 231; office documents; DOEIS project; Office

Information Server; static data objects; dynamic office work sequences; office procedures; semantic data model; loosely coupled networked environment; client-server conversations; client-server interactions; recovery; synchronisation; semantic analysis; inference; query response structure

Class Codes: C7104 (Office automation); C6120 (File organisation); C6180 (User interfaces); C6160 (Database management systems (DBMS))

13/5/28 (Item 10 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 1999 Institution of Electrical Engineers. All rts. reserv.

03577059 INSPEC Abstract Number: C90022250

Title: 'COM in future document management systems'

Author(s): Boughton, B.

Conference Title: Proceedings. IMC Document Management Systems Conference p.14/1-12

Publisher: IMC, Fairport, NY, USA

Publication Date: 1989 Country of Publication: USA 236 pp.

Conference Date: 25-27 May 1988 Conference Location: Stockholm, Sweden

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: Looking forward twelve years to the year 2000, the author anticipates both inviting possibilities as well as threatening unknowns and out of all the unknowns one fact emerges: it is most unlikely that the vast, varied and ever expanding need to store and retrieve information will be efficiently met by any single storage media, known or unknown. **Data processing managers** will continue to class and **store** different **kinds** of **data** in a wide **variety** of storage media, one of which is **most** certainly going to be COM. In discussing the future of COM, the author looks at: laser and non-impact printers, optical storage, document and image management as part of DP, 4GLs, **COM changes** for document/image systems needs, human-readable and machine-readable COM microfiche and COM microfiche in future security systems. (0 Refs)

Descriptors: computer graphics; computer output to microfilm; information retrieval systems; microforms; technological forecasting

Identifiers: laser printers; future document management systems; storage media; non-impact printers; optical storage; image management; DP; 4GLs; COM changes; document/image systems needs; human-readable; machine-readable COM microfiche; future security systems

Class Codes: C7250L (Non-bibliographic systems); C5580 (Computer output on microform (COM)); C6130B (Graphics techniques)

13/5/29 (Item 11 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 1999 Institution of Electrical Engineers. All rts. reserv.

03468425 INSPEC Abstract Number: C89061683

Title: Management systems for multimedia documents

Author(s): Felician, L.; Tizianel, T.

Journal: Sistemi & Impresa vol.35, no.301 p.433-9

Publication Date: March 1989 Country of Publication: Italy

Language: Italian Document Type: Journal Paper (JP)

Treatment: General, Review (G)

Abstract: A review of the state-of-the-art covering information elements made up of data, text, digital graphics and voice components. The article looks at the most recent multimedia management systems and the problems of managing deletions and **changes** to the contents of write-once optical discs which are regarded as the **most** promising form of mass **data storage** for this **type** of system. (29 Refs)

Descriptors: optical disc storage; records management; reviews

Identifiers: data modification; multimedia documents; data; text; digital graphics; voice; multimedia management systems; deletions; write-once optical discs; mass data storage

Class Codes: C5320K (Optical storage); C7100 (Business and administration)

13/5/30 (Item 12 from file: 2)

DIALOG(R) File 2:INSPEC

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03220629 INSPEC Abstract Number: C88058484

Title: A library of utilities for QuickBasic

Author(s): Barbier, C.

Journal: Micro Systemes no.88 p.92-3

Publication Date: July-Aug. 1988 Country of Publication: France

CODEN: MSYSDT ISSN: 0183-5084

Language: French Document Type: Journal Paper (JP)

Treatment: Practical (P); Product Review (R)

Abstract: A software package from Somma France for file management is discussed from two aspects: the interactive creation of programs from file and index menus, and the number of routines and modules which can be used within a program to save time. File management functions allow the removal of a numbered record, the creation or modification of a record with updated indexing and if necessary a test for uniqueness of the key, record searching and readout from a key by **several** methods, **file** input/output buffer **management**, and **type conversions** allowing program variables to be written into a file. Other practical tools mentioned include acquisition control, dictionary display selected by cursor control keys, and menu management on 23 lines at most. The functions, however, are identified only by a string of letters in many instances. (0 Refs)

Descriptors: file organisation; software packages; storage management; utility programs

Identifiers: library of utilities; QuickBasic; software package; Somma France; file management; index menus; record searching; input/output buffer management; acquisition control; dictionary display

Class Codes: C6120 (File organisation); C6150E (General utility programs)

13/5/31 (Item 13 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 1999 Institution of Electrical Engineers. All rts. reserv.

02847405 INSPEC Abstract Number: C87024370

Title: Wordlord word processing package: cost-effective and capable of extension

Author(s): Boger, I.

Journal: Personal Computer no.10 p.40-1

Publication Date: Oct. 1986 Country of Publication: West Germany

CODEN: PCSOEB ISSN: 0179-2687

Language: German Document Type: Journal Paper (JP)

Treatment: Practical (P); Product Review (R)

Abstract: Describes the technical features and provides an assessment, based on tests, of the Wordlord text processing program including its supplementary modules. The assessment scores an average of 2.2 (top mark 1) for cost/performance, operation, documentation, compatibility, and aid menus. A 125 kbyte memory together with an IBM PC or compatible are required. Basic costs are only 250 DM. Special features include: the calculation function 'Spreadlord' with special formatting facilities, the Mailmerge+Sort module which selects and sorts address files, the Spelling-Checker (a dictionary of 30000 words), the Font Editor module for the generation of **various type faces and graphics**, a **Data Manager** which provides for the building-up of a data bank and a **Converter** module to enable reading from external files. Particularly useful is the ability of the program to write in upper case automatically after a stop: and numbers in words can be transformed into figures. A disadvantage is that format specifications, made in the first lines, must be repeated in the print menu with the result that the 'default file' is correspondingly altered. But a format deviating from the default file must again be matched up in the printer menus by the user. Detailed instructions for standard settings and their modifications are not given in the Handbook or in the Tutor program. (0 Refs)

Descriptors: software packages; word processing
Identifiers: Wordlord word processing package; text processing;
supplementary modules; cost/performance; documentation; compatibility; 125
kbyte memory; IBM PC; compatible; calculation function; Spreadlord;
formatting facilities; Mailmerge; Sort module; Spelling-Checker; Font
Editor module; graphics; Data Manager; data bank; Convertor module; format
specifications

Class Codes: C7106 (Word processing)

13/5/32 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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04008831 JICST ACCESSION NUMBER: 97A0442594 FILE SEGMENT: JICST-E
Hub- Metadata. **Core- Metadata compounded with link information of a
document.**

OYA KAZUSHI (1); TSUCHIYA SHUN (2)

(1) Chiba Univ.; (2) Chibadai Sogojohoshorise

Joho Shori Gakkai Kenkyu Hokoku, 1997, VOL.97,NO.33(DD-6), PAGE.33-40,
FIG.3, REF.16

JOURNAL NUMBER: Z0031BAO ISSN NO: 0919-6072

UNIVERSAL DECIMAL CLASSIFICATION: 681.3.06 002.5

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

ABSTRACT: In this paper we suggest a new type of **metadata** description
format called **Hub-Metadata**. The **Hub-Metadata** not only works like a
ID, so we can use it as a keyword set for retrieval, but works as a
hub-document since information on link in a content object is included
in it, so we can **manage all kinds of data types** in a same
manner on the **Hub-Metadata**. (author abst.)

DESCRIPTORS: data; identification; information retrieval; specification
description; link; data management; word processing; database;
hypertext; data type; data retrieval; IC card; application oriented
language

BROADER DESCRIPTORS: recognition; retrieval; description; action and
behavior; management; computer application; utilization; information
processing; treatment; **data structure**; structure; mold and pattern;
fact retrieval; card(sheet); programming language; formal language;
language

CLASSIFICATION CODE(S): JD03010Y; AC06010H

13/5/33 (Item 2 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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02032576 JICST ACCESSION NUMBER: 93A0965398 FILE SEGMENT: JICST-E
Object Oriented Management Information Base.

KIRIHARA YOSHIKI (1); IMAI ICHIRO (2)

(1) Nihondenki C&CKen; (2) Nihondenkimiyagi

Denshi Joho Tsushin Gakkai Gijutsu Kenkyu Hokoku(IEIC Technical Report
(Institute of Electronics, Information and Communication Engineers),
1993, VOL.93,NO.291(IN93 97-105), PAGE.17-22, FIG.8, REF.15

JOURNAL NUMBER: S0532BBG

UNIVERSAL DECIMAL CLASSIFICATION: 681.3:061.68 621.394/.395

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

ABSTRACT: In OSI based network management systems, a management information
base (MIB) which stores management information, is one of the most
important components from the system performance viewpoint. This paper
proposes and object oriented MIB (OOMIB) which employs an object
oriented database. The proposed OOMIB consists of mainly two modules;
directory information module and managed object data module. The

directory information module stores a containment tree which represents the "part-of" relationship between managed objects. The **managed** object **data** module stores **several kinds** of instances which belong to some managed object class or some attribute class defined by C++ language. This paper also describes two schema models each of which has different clustering methods of the instances in non volatile storage. We have developed an experimental OOMIB which stores about 10,000 managed object instances consisting transmission networks including time-division multiplexers. Our evaluation results show performance properties of the two models for several access patterns. (author abst.)

DESCRIPTORS: object-oriented database; OSI protocol; communication administration; attribute; clustering; auxiliary memory; **data structure** ; object-oriented language

BROADER DESCRIPTORS: database; protocol; rule; management; property; modification; memory(computer); equipment; structure; programming language; formal language; language

CLASSIFICATION CODE(S): JD03030U; ND11010T

13/5/34 (Item 3 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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01806639 JICST ACCESSION NUMBER: 93A0449536 FILE SEGMENT: JICST-E

An Extended Survey on Provable Information Base Systems.

OGATA ICHIRO (1); ISOBE YOSHINAO (1); TAKAHASHI KOICHI (1); EBIHARA ICHIRO (1); KOJIMA ISAO (1); SATO YUTAKA (1); OMAKI KAZUHITO (1)

(1) Electrotechnical Lab.

Denshi Gijutsu Sogo Kenkyujo Chosa Hokoku(Circulars of the Electrotechnical Laboratory), 1993, NO.223, PAGE.159p, FIG.41, REF.84

JOURNAL NUMBER: F0017ABO ISSN NO: 0366-9084

UNIVERSAL DECIMAL CLASSIFICATION: 681.3.06

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

ABSTRACT: Each software system on a computer is generally composed from different layered software, such as operating systems, language processors, and application programs. Any of those layers have to handle their own structured or organized data by themselves. We will, therefore, need a technology to construct data structures which can be commonly used from different software layers. We define here that the information base is software which includes both static and dynamic representations of data. The information base should be commonly used by the different software layers. We also define that the provable information base is an information base where each software component in the information base is theoretically proved and the construction of a whole system is also theoretically proved. We have to develop a technology for provable information base systems, since, by using the provable information base systems as software engines to **manipulate all kinds of data** , software engineers can only concentrate on the improvement of their own algorithms besides boring data handling problems. This survey includes extended abstracts of selected papers to be able contribute to construct the provable information base systems. (author abst.)

DESCRIPTORS: data representation; **data structure** ; hierarchical structure; program structure; logic; deductive database; object-oriented database; user interface

BROADER DESCRIPTORS: representation; structure; database; interface

CLASSIFICATION CODE(S): JD03010Y

13/5/35 (Item 4 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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01627266 JICST ACCESSION NUMBER: 92A0591356 FILE SEGMENT: JICST-E

Geometric Modeling based on Non-manifold Topology.

YAMAGUCHI YASUSHI (1)

(1) Tokyo Denki Univ., Faculty of Engineering

Tokyo Denki Daigaku Sogo Kenkyujo Nenpo(Annual Report. Research Institute for Technology, Tokyo Denki University), 1992, NO.11(1991),

PAGE.127-132, FIG.11, TBL.1, REF.11

JOURNAL NUMBER: L0877AAH

UNIVERSAL DECIMAL CLASSIFICATION: 621:74

LANGUAGE: Japanese

COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

ABSTRACT: A manifold solid model is not powerful enough for some applications, because it cannot handle several volumes, surfaces, and curves simultaneously. Non-manifold topology models have been proposed for this problem. However, data structures capable of representing volumes with dangling edges and faces were determined in rather ad hoc manner, and operations were not complete to **manipulate all types of data** entities. We propose a **data structure** and associated operations by focusing on boundaries and neighborhoods. The **data structure** is both sufficient and efficient, and the operations can manipulate all data entities fulfilling a certain set of consistency conditions. (author abst.)

DESCRIPTORS: manifold(mathematics); topology; geometry; modeling; Euclidean space; phase(topology); curved surface; **data structure**; C language; object oriented programming; mechanical design

BROADER DESCRIPTORS: topological space; mathematical space; space; mathematics; operation(processing); metric space; vector space; face; structure; high level language; programming language; formal language; language; computer programming; design

CLASSIFICATION CODE(S): QA01080H

13/5/36 (Item 5 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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01317530 JICST ACCESSION NUMBER: 90A0907682 FILE SEGMENT: JICST-E

The interactive data management system for electric power system.

FUKUDA MITSUAKI (1); ASAKURA TAKAYOSHI (1); YATSUBO OSAMU (1); TSUJI

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Shisutemu Seigyo Joho Gakkai Kenkyu Happyo Koenkai Koen Ronbunshu(

Proceedings of the Annual Conference of the Institute of Systems,

Control and Information Engineers), 1990, VOL.34th, PAGE.391-392, FIG.4

JOURNAL NUMBER: X0014ABF

UNIVERSAL DECIMAL CLASSIFICATION: 621.311.1

LANGUAGE: Japanese

COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Conference Proceeding

ARTICLE TYPE: Short Communication

MEDIA TYPE: Printed Publication

ABSTRACT: Power system analysis requires to handle many data relevant to power system configuration as well as input and output for analysis programs and consumes much time. Therefore, we developed an interactive data management system for electric power systems for the purpose of simplifying these tasks. One feature of the developed system is that an interactive environment of operation which beginners can easily use, is offered by the menu and mouse controller. Another feature is that functions as a data-base system of electric power systems have been strengthened, so we can **manage** and access the **data** in a standardized manner for **various kinds** of applications such as load flow calculations and dynamic simulations which currently requires completely different data format. (author abst.)

DESCRIPTORS: electric power system; data processing system; **data structure**; system operation; interactive processing; system planning

BROADER DESCRIPTORS: system; computer application system; structure; operation(management); treatment; plan

CLASSIFICATION CODE(S): NB02000E

13/5/37 (Item 6 from file: 94)
DIALOG(R)File 94:JICST-EPlus
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00567421 JICST ACCESSION NUMBER: 88A0037941 FILE SEGMENT: JICST-E
The knowledge model for knowledge-base system and its manipulation language.
MAKINOCHI AKIFUMI (1); ISHIKAWA HIROSHI (1)
(1) Fujitsu Labs. Ltd.
Joho Shori Gakkai Kenkyu Hokoku, 1987, VOL.87,NO.80(DB-62),
PAGE.62.3.1-62.3.8, FIG.4, REF.9
JOURNAL NUMBER: Z0031BAO
UNIVERSAL DECIMAL CLASSIFICATION: 681.3.016
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper
ABSTRACT: The knowledge-base system that we are now developping allows to
represent, store, retrieve, and **manipulate various types of data**
including alphanumeric, image, graphics, rule, and program. In this
paper the basic idea of the manipulation language for the system is
given. The model on which the system is based is an object-oriented
one. Classes of objects are organized in a hierarchical structure.
Relationships between classes are regarded as functions. The language
allows to retrieve a set of objects designating a class and a function
defined on the class. Thus the language is object-oriented and
set-oriented.(author abst.)
DESCRIPTORS: knowledge base system; application oriented language; object
oriented programming; DBMS; data model; data representation; data
management; attribute; **data structure** ; knowledge representation
BROADER DESCRIPTORS: artificial intellegence system; computer application
system; system; programming language; formal language; language;
computer programming; model; representation; management; property;
structure
CLASSIFICATION CODE(S): JD03030U

13/5/38 (Item 1 from file: 61)
DIALOG(R)File 61:LISA(LIBRARY&INFOSCI)
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02072162 8506082
Library and Information Science Abstracts (LISA)
U.S. documents: basic selection sources.
AUTHOR(S): Moody, Marilyn
JOURNAL: Collection Building
SOURCE: 6 (1) Spring 84, 38-40.
PUBLICATION DATE: Spring 84 -- 19840300
ISSN: 0160-4953
BLDSC SHELF MARK: 3310.477400
RECORD TYPE: Abstract
LANGUAGES: English

ABSTRACT: Reviews aspects of document collection development. Suggests and
evaluates specific document sources as well as contributing ideas on
document collection building and **management** techniques. Includes **all**
types of government documents: federal, state, local, international and
foreign. Aims at a variety of libraries and collection development
situations, and not just depository libraries or government document
departments. Discusses basic selection sources for US documents that have
changed , expanded or been discontinued. Also includes basic indexes
with suggestions for using them as selection tools.

DESCRIPTORS: USA; Government publications; Technical services; Acquisitions
; Selection; Policies; Collection development policies

13/5/39 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS
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1878352 NTIS Accession Number: N95-24127/9

Influence of Technology on Magnetic Tape Storage Device Characteristics

Gniewek, J. J. ; Vogel, S. M.

International Business Machines Corp., Tucson, AZ.

Corp. Source Codes: 110489000; IV693944

Sponsor: National Aeronautics and Space Administration, Washington, DC.

Mar 94 15p

Languages: English

Journal Announcement: GRAI9515; STAR3307

In NASA. Goddard Space Flight Center, Fourth NASA Goddard Conference on Mass Storage Systems and Technologies p 237-251.

NTIS Prices: (Order as N95-24108, PC A17/MF A04)

Country of Publication: United States

There are available today many data storage devices that serve the diverse application requirements of the consumer, professional entertainment, and computer data processing industries. Storage technologies include semiconductors, several varieties of optical disk, optical tape, magnetic disk, and many varieties of magnetic tape. In some cases, devices are developed with specific characteristics to meet specification requirements. In other cases, an existing storage device is modified and adapted to a different application. For magnetic tape storage devices, examples of the former case are 3480/3490 and QIC device types developed for the high end and low end segments of the data processing industry respectively, VHS, Beta, and 8 mm formats developed for consumer video applications, and D-1, D-2, D-3 formats developed for professional video applications. Examples of modified and adapted devices include 4 mm, 8 mm, 12.7 mm and 19 mm computer data storage devices derived from consumer and professional audio and video applications. With the conversion of the consumer and professional entertainment industries from analog to digital storage and signal processing, there have been increasing references to the 'convergence' of the computer data processing and entertainment industry technologies. There has yet to be seen, however, any evidence of convergence of data storage device types. There are several reasons for this. The diversity of application requirements results in varying degrees of importance for each of the tape storage characteristics.

Descriptors: *Data storage; *Magnetic storage; *Magnetic tapes; *Specifications; Data processing; Digital data; Error correcting codes; Magnetic recording

Identifiers: NTISNASA

Section Headings: 82C (Photography and Recording Devices--Recording Devices)

13/5/40 (Item 2 from file: 6)

DIALOG(R)File 6:NTIS

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1814454 NTIS Accession Number: DE94009233

Remote Sensing and Special Surveys Program annual report, January--December 1993. Environmental Restoration Program

(Progress rept)

Conder, S. R. ; Doll, W. E. ; Gabrielsen, C. A. ; King, A. D. ; Durfee, R. C.

Oak Ridge National Lab., TN.

Corp. Source Codes: 021310000; 4832000

Sponsor: Department of Energy, Washington, DC.

Report No.: DOE/OR-01-1255; ES/ER/TM-115

Mar 94 9p

Languages: English

Journal Announcement: GRAI9418; ERA9434

Sponsored by Department of Energy, Washington, DC.

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NTIS Prices: PC A03/MF A01

Country of Publication: United States

Contract No.: AC05-84OR21400

The Remote Sensing and Special Surveys Program has been established to provide environmental characterization data, **change** data, and trend data to **various** Environmental Restoration and Waste **Management** (ERWM) programs. The **data** are acquired through **several** different **types** of survey platforms. During the calendar year of 1993, a variety of surveys were conducted through the Remote Sensing and Special Surveys Program. The aerial surveys included geophysical, radiological, false color infrared (IR) photography, and natural color photography. Ground surveys were conducted to correlate data collected from the airborne platforms to data measured at ground level. Ground surveys were also conducted to determine the existence or absence of threatened and endangered plant species on the Oak Ridge Reservation. Some of the special surveys included laser induced fluorescence imaging, solar reflectance, and various remote sensing and ground control activities for the Strategic Environmental Research and Development Program (SERDP) initiative. Data analysis, management, and storage are also conducted by the Remote Sensing and Special Surveys Program to achieve the highest level of data useability possible. The data acquired through these surveys have provided and will continue to provide much needed information to ERWM programs.

Descriptors: *Oak Ridge Reservation; *Remedial Action; *Surveys; Aerial Surveying; Data Analysis; Fluorescence; Geophysical Surveys; Infrared Spectra; Lasers; Photography; Progress Report; Remote Sensing; Site Characterization; Waste Management

Identifiers: EDB/540250; EDB/054000; EDB/052000; NTISDE

Section Headings: 68GE (Environmental Pollution and Control--General); 48C (Natural Resources and Earth Sciences--Natural Resource Surveys)

13/5/41 (Item 3 from file: 6)

DIALOG(R)File 6:NTIS

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1681737 NTIS Accession Number: PB92-231232

Program for the Microsoft (trade name) Windows Environment to Collect Analog-to-Digital and Serial Communication Data on a Personal Computer Based System

(Technical memo)

Holland, R. C.

National Marine Fisheries Service, La Jolla, CA. Southwest Fisheries Science Center.

Corp. Source Codes: 037938004

Report No.: NOAA-TM-NMFS-SWFSC-170

Jul 92 20p

Languages: English

Journal Announcement: GRAI9224

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NTIS Prices: PC A03/MF A01

Country of Publication: United States

PCPluss for Windows, a Visual Basic program, and the companion programs were developed to sample continuous and discrete data from a variety of environmental sensors during transits of a research vessel (R/V); it was specifically designed for the Pacific research cruises MOPS (Monitoring of Porpoise Stocks), PODS (Population of Delphinus Stocks), and CAMMS (California Marine Mammal Survey). It was designed to run on an inexpensive personal computer but also has potential for use in any R/V oceanographic program. PCPluss was designed to sample, average, and **store multiple** streams of **data** from a **variety** of sources. It is presently being configured to directly use an analog-to-digital board and **convert** analog data from a Turner Designs fluorometer (flow-thru Model 10) to a 12-bit digital form, collect temperature and salinity data from a Sea-bird thermosalinograph through a communication port, and to collect satellite navigation latitude and longitude locations through a second communication

port. It is also possible to reconfigure the system to sample from other types of sensors.

Descriptors: *Marine animals; *Natural resources management; *Data acquisition; *Computer applications; Monitoring; Data sampling; Sensors; Personal computers

Identifiers: PCPluss computer program; NTISCOMNOA

Section Headings: 48C (Natural Resources and Earth Sciences--Natural Resource Surveys); 48B (Natural Resources and Earth Sciences--Natural Resource Management); 47D (Ocean Technology and Engineering--Biological Oceanography); 47F (Ocean Technology and Engineering--Oceanographic Vessels, Instruments, and Platforms)

13/5/42 (Item 4 from file: 6)

DIALOG(R)File 6:NTIS

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1202499. NTIS Accession Number: DE85016111

Research in Nuclear Physics. Progress Report, August 1, 1984-July 31, 1985

Kozub, R. L.

Tennessee Technological Univ., Cookeville. Dept. of Physics.

Corp. Source Codes: 015057008; 9509773

Sponsor: Department of Energy, Washington, DC.

Report No.: DOE/ER/10335-7

1985 20p

Languages: English

Journal Announcement: GRAI8525; NSA1000

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NTIS Prices: PC A02/MF A01

Country of Publication: United States

Contract No.: AS05-79ER10335

Development of NUPHIAS (Nuclear Physics Information Analysis System) for a VAX 11/725 processor is reported. The principal purpose of NUPHIAS is the analysis of multiparameter data from experiments in nuclear physics. NUPHIAS will consist of several general-purpose modules, the functions of which include reading specialized tape formats, **converting** tapes with foreign formats to a VMS-like format, creating spectrum data files from the tapes, displaying graphic representations of **various types** of spectra, setting gates and windows, **sorting** the data according to these gates to produce the final spectra, and analyzing these final spectra. Also reported is the search for bound multineutron systems produced in heavy ion reactions. One experiment is described in which a neutron-rich compound nuclear system, sup 59 Fe, was created using a sup 50 Ti beam on a 2 mg/cm exp 2 -thick sup 9 Be target. An upper limit on the product of the cross sections for production of neutron clusters in the sup 9 Be target and for the production of sup 28 Mg by reaction of those clusters with sup 26 Mg, as calculated from preliminary data, is about 300 (mb) exp 2 . (ERA citation 10:043278)

Descriptors: *Neutrons; *Nuclear Physics; Beryllium 9 Target; Bound State ; Data Analysis; Titanium 50 Reactions

Identifiers: ERDA/651000; ERDA/990200; NUPHIAS system; NTISDE

Section Headings: 46GE (Physics--General)

13/5/43 (Item 5 from file: 6)

DIALOG(R)File 6:NTIS

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1189931 NTIS Accession Number: NTN85-0423

Integrated Manufacturing Operations Information System

(NTIS Tech Note)

Department of the Air Force, Washington, DC.

Corp. Source Codes: 000260000

May 85 1p

Languages: English

Journal Announcement: GRAI8520

Write NTIS for information about Tech Notes subscriptions and back issue packages available.

NTIS Prices: Not available NTIS

Country of Publication: United States

This citation summarizes a one-page announcement of technology available for utilization. Most aerospace manufacturers producing Air Force weapon systems use computers to help speed production and make it more efficient, however, each different computer system and data base 'speaks a different language.' Since the average major aerospace manufacturer uses between 300 and 500 data bases for production of a single aerospace system, transferring and **translating** data from one software system to another takes a lot of time and effort and is sometimes not even technically possible. The Aeronautical Systems Division (ASD) Materials Laboratory has put into test operation the Integrated Information Support System which will tie together various manufacturing application programs so that the computer user will be able to obtain any information with a single command and program. The ASD laboratory has designed and developed a software system which takes into account **many** of the **types** of **data base management** systems used in manufacturing operations: quality assurance, facilities, assembly operations, fabrication, in-process inspection, forecasting, production control, data collection, inventory control, logistics, maintenance, finance and business management systems. Working with the Materials Laboratory, a coalition of government contractors has developed a generic system of software which can be used to **translate** from one data base type to another and may be used on different types of computers for various types of product and types of manufacturing. The software is comprised of four major subsystems: a common data model, communications, a network transaction manager, and a user interface. ...FOR ADDITIONAL INFORMATION: Contact: Ms. Joe Anne Rumble, Aeronautical Systems Division, (ASD/PA), Wright-Patterson AFB, OH 45433, (513) 255-2725. Refer to PAM85-017/TN.

Descriptors: *Information systems

Identifiers: *Computer aided manufacturing; *Computer applications; NTN/A ; NTN/G; NTISNTND

Section Headings: 94G (Industrial and Mechanical Engineering--Manufacturing Processes and Materials Handling); 41B (Manufacturing Technology--Computer Aided Manufacturing (CAM)); 41E (Manufacturing Technology--Manufacturing, Planning, Processing, and Control)

13/5/44 (Item 6 from file: 6)

DIALOG(R)File 6:NTIS

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1168025 NTIS Accession Number: AD-A151 160/9

User's Guide to ISRP: The Interactive Survey Reduction Program

(Final rept)

Birkemeier, W.

Coastal Engineering Research Center, Vicksburg, MS.

Corp. Source Codes: 081491000; 037050

Report No.: CERC-IR-84-1

Nov 84 118p

Languages: English

Journal Announcement: GRAI8512

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A06/MF A01

Country of Publication: United States

This report describes the capabilities and use of the Interactive Survey Reduction Program (ISRP). ISRP is a FORTRAN program which permits interactive reduction, editing, and plotting of field survey notes and the correction of previously entered data. The primary output from ISRP is a two-dimensional distance offshore and elevation data file compatible with the Beach Profile and Analysis System (BPAS) program developed by CERC (see

CERC TR 82-1). The BPR includes six modules for use in editing, analyzing, and plotting beach profile data; it provides a powerful tool for studying beach profile **changes**. Because the data format created by ISRP is sufficiently general, anyone processing **most kinds** of beach and nearshore survey **data** will **find** ISRP useful. This report includes detailed discussions of each ISRP option. Appendices A-D contain an option summary, a sample run, a discussion of program mechanics, and installation-specific instructions for executing ISRP. The ISRP program is not included in this report but is available from the Engineer Computer Program Library, US Army Engineer Waterways Experiment Station, Vicksburg, Miss.

Descriptors: *Computer program documentation; *Beaches; Programming manuals; Editing; Computer files; Data management; Formats; Offshore; Elevation; Fortran; Plotting; User manuals

Identifiers: ISRP computer program; BPAS system; NTISDODXA

Section Headings: 48I (Natural Resources and Earth Sciences--Cartography)
; 47GE (Ocean Technology and Engineering--General)

13/5/45 (Item 1 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

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1332867 H.W. WILSON RECORD NUMBER: BAST95001762

ISO 9000 for injection molders

Bernhardt, Ernest C; Venditti, James A

Plastics Technology v. 40 (Nov. '94) p. 33-6

DOCUMENT TYPE: Feature Article ISSN: 0032-1257 LANGUAGE: English

RECORD STATUS: Corrected or revised record

ABSTRACT: The writers present the basic guidelines on what injection molders must do to attain ISO 9000 quality certification. ISO 9000 registration has become a recognized and effective tool to **document** quality-**management** practices in **all types** of industrial operations, including a growing number of injection molding firms. The following 5 steps are general milestones along the path to ISO 9001: assess current quality-management practices, select a registrar, define the **changes** required to achieve ISO compliance, implement the enhanced quality policies and practices, and undergo ISO 9001 registration audit. Because ISO registration requires a molder to meet or exceed customers' product-quality expectations, the company can be fully confident that it will pass any reasonable inspection by the customer.

DESCRIPTORS: Injection molding (Plastics); ISO 9000 series standards;
Plastics processing plants--Quality control;

13/5/46 (Item 2 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

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1250022 H.W. WILSON RECORD NUMBER: BAST95045777

Type checking concurrent I/O

Carlisle, W. H;

ACM Transactions on Programming Languages and Systems v. 17 (May '95) p. 448-60

DOCUMENT TYPE: Feature Article ISSN: 0164-0925 LANGUAGE: English

RECORD STATUS: New record

ABSTRACT: A study on the use of the concurrency operators in regular expressions to define a **type** for **data** structures to **store** or convey concurrent information among **multiple** processes. Extended regular expressions were used to obtain a protocol for concurrent data structures that allowed for compile-time type checking of parallel data assignment to these structures. Channels and an Occam-like syntax were used to base the work on previous research and to show the ideas of a concurrent type, concurrent assignment, and type checking for the examples used. These ideas were then formalized, and their application to type checking was shown.

The applicability of another regular-expression extension to concurrent **data structure** communication was studied. It was concluded that this type of regular-expression notation would be appropriate for a language with blackboards that wishes to enforce some form of compile-time type checking of input and output to this structure.

DESCRIPTORS: Occam (Computer language); Data structures; Concurrent processing;

Set	Items	Description
S1	551941	DOCUMENT? OR FILE? OR DIGITAL() IMAGE? OR GRAPHIC? OR DATA
S2	31807	S1(3N) (MANAGE? OR MANIPULAT? OR INDEX OR FIND OR SEEK OR ARRANGE? OR STORE OR STORAGE OR SORT?)
S3	451	S2(4N) (MANY OR MULTIPLE OR SEVERAL OR PLURAL? OR ALL OR MOST OR VARIOUS) (2N) (TYPE? OR KIND? OR FORMAT? OR VARIET? OR IDENTIT? OR CATEGOR? CHARACTERISTIC? OR TEXT(2N) IMAGE?)
S4	3678	ATTRIBUTE() DATA OR DATA() STRUCTURE OR METADATA OR META() DATA
S5	10	S3(S) S4
S6	71	S3 AND S4 AND (CONVER? OR TRANSLAT? OR CHANGE?)
S7	0	S6 AND ((SMART? OR INTELLIGENT?) () FOLDER? OR STG)
S8	71	S6 AND (RETRIEV? OR INDEX? OR INDICE? OR FIND? OR LOCATE? - OR SEARCH? OR SEEK?)
S9	56	S6 (S) (RETRIEV? OR INDEX? OR INDICE? OR FIND? OR LOCATE? OR SEARCH? OR SEEK?)
S10	59	S5 OR S9
S11	55	S10 NOT AD>971008
S12	38	S11 AND IC=(G06F?)
S13	38	S12 NOT AD>971008
S14	1	PN=DE 69030833 + PN=EP 388050 + PN=JP 10210414 + PN=JP 206-4856 + PN=JP 2096268 + PN=JP 2307156 + PN=JP 3257590 + PN=JP -59100879 + PN=JP 60168271 + PN=JP 62211536 + PN=JP 62223877 + PN=JP 7200561 + PN=JP 7323116 + PN=JP 8055050
S15	0	PN=JP 8202600 + PN=JP 8221253 + PN=JP 8314968 + PN=US 5210-824 + PN=US 5548753
S16	1	S14:S15
S17	38	S13 NOT S16
S18	14	S17 AND IC=(G06F-017? OR G06F-012?)

File 348:European Patents 1978-1999/Jan W01

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